# **Source Water Assessment Report**



**Public Water Supply: VFW POST 8773** 

# Assessment Areas Include: 840



Kansas Department of Health and Environment Bureau of Water Watershed Management Section 1000 SW Jackson St., Suite 420 Topeka, KS 66612–1367





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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

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## **Report Description**

### **Detailed Explanation of Entire Report:**

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(http://www.kdhe.state.ks.us/nps) in 2004.

### **VFW POST 8773 Summary:**

AA	Туре	Diversion Id
840	Ground water single well	001

Assessment Area: **840**Diversion Id's: **001** 

Status: Accepted

Submit Date: 2003–02–03 11:44:54

### **Executive Summary:**

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

# **Executive Summary**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Susceptibility Likelihood Scores for Assessment Area**

<b>Contaminant Category</b>	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	60	56	64	64	62	63
SLS Range	Mid	Mid	Mid	Mid	Mid	Mid

A – Microbiolgical

**B\*** – Nitrates

C\* – Pesticides

**B** – Inorganic Compounds

C – Synthetic Organic Compounds

**D** – Volatile Organic Compounds

### Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	<b>Moderate Susceptibility</b>
81–100	High Susceptibility

Assessment Area: **840**Diversion Id's: **001** 

Status: **Accepted** 

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#### **Potential Sources:**

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

# **Potential Sources**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Unregulated Potential Site Sources**

Source No.	SIC Description	SIC ID	Zone
138421	Gasoline Service Station	5541	В
138446	Repair Services, Nec	7699	В
138020	Veterinary Services, Specialties	742	С
138319	Veterinary Services, Specialties	742	С
138392	Veterinary Services, Specialties	742	С
137718	Rock Quarry	1429	С
137719	Single-family Housing Construction	1521	С
137720	Single-family Housing Construction	1521	С
137721	Single-family Housing Construction	1521	С
137774	Single–family Housing Construction	1521	С
137983	Single-family Housing Construction	1521	С
138004	Single-family Housing Construction	1521	С
138017	Single-family Housing Construction	1521	С
138036	Single-family Housing Construction	1521	С
138213	Single–family Housing Construction	1521	С
138348	Single–family Housing Construction	1521	С
138354	Single–family Housing Construction	1521	С
138367	Single–family Housing Construction	1521	С

# **Unregulated Potential Site Sources**

Source No.	SIC Description	SIC ID	Zone
138372	Single–family Housing Construction	1521	С
138375	Single–family Housing Construction	1521	С
138659	Single-family Housing Construction	1521	С
138425	Nonresidential Construction	1542	С
138705	Nonresidential Construction	1542	С
138708	Nonresidential Construction	1542	С
137722	Highway and Street Construction	1611	С
137991	Highway and Street Construction	1611	С
137838	Bottled and Canned Soft Drinks Production	2086	С
138184	Newspapers Publishing and Printing	2711	С
138185	Newspapers Publishing and Printing	2711	С
138037	Commercial Printing-Lithographic	2752	С
137827	Commercial Printing NEC	2759	С
138127	Commercial Printing NEC	2759	С
138656	Gray Iron Foundry	3321	С
138119	Metal Coating and Allied Services Manufacturing	3479	С
137998	Machinery, Except Electrical Manufacturing	3599	С
138713	Truck Trailers Manufacturing	3715	С
137934	Local Trucking, without Storage	4212	С
137727	Sewerage Systems	4952	С

# **Unregulated Potential Site Sources**

Source No.	SIC Description	SIC ID	Zone
138107	Refuse Systems	4953	С
137989	Farm and Garden Machinery	5083	С
138230	Gasoline Service Station	5541	С
138249	Gasoline Service Station	5541	С
138351	Sporting and Recreational Camps	7032	С
138084	Photofinishing Laboratory	7384	С
137900	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
138016	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
138025	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
138378	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
138454	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
137837	Auto Truck Repair Service	7538	С
138115	Auto Truck Repair Service	7538	С
138157	Auto Truck Repair Service	7538	С
138377	Auto Truck Repair Service	7538	С
137894	Car Wash	7542	С
137990	Car Wash	7542	С
138041	Car Wash	7542	С

### **Unregulated Potential Site Sources**

Source No.	SIC Description	SIC ID	Zone
137814	Repair Services, Nec	7699	С
138183	Repair Services, Nec	7699	С
138352	Repair Services, Nec	7699	С
138376	Repair Services, Nec	7699	С

### **Regulated Confined Animal Feeding Operations Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
2000516	Altwegg, Mr. Mrs. Frederick (smoky Hill Farm)	A-SHGE-M004	C

### **Regulated Hazardous Waste Potential Site Sources**

Did Not Contain Any Of These Potential Site Sources

### **Regulated Leaking Storage Tank Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
3001101	Junction 66	16391	В
3001286	Amoco #9648	23324	В

# **Regulated Leaking Storage Tank Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
3001388	Kwick Sack	25006	В
3001730	Kdot, Junction City	26660	В
3000160	4th Street Service	01908	С
3000217	Farmer-stockman Coop	02619	С
3000430	Junction City Transport	05238	С
3000504	Usd 475, Maintenance	06044	С
3000512	Geary Community Hosp	06166	С
3000580	Total #2174 (vickers)	06429	С
3000630	Kwik Shop #756	06619	С
3000686	Ryder Truck Rental, Junction City	06876	С
3000699	Total #1864	06979	С
3000915	Robo Car Wash	09156	С
3001248	Willhoite's Inc	22869	С
3001467	Venator Group (woolworth)	25457	С
3001512	Willard Whorton Son	25700	С
3001601	Junction City Agri Service	26092	С
3001648	Shop Quik #1	26292	С
3001649	Kwik Sack #3	26293	С
3001650	Shop Quik	26294	С
3001897	United Telephone	27404	С
3001924	Goodyear Tire Co	27500	С
3002704	Geary Co Hwy Dept	81326	С
3002778	Former Car Dealer	81484	С

### **Regulated Leaking Storage Tank Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
3002818	City Ice Co	81602	С
3002828	Rr Auto Detailing Limo Service	81640	С
3002867	Bell Taxi Trans. Of Manhattan	81766	С
3002879	Gross Wrecker Service	96095	С

### **Regulated Identified Contaminated Potential Site Sources**

Did Not Contain Any Of These Potential Site Sources

### **Regulated Solid Waste Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
5000321	Geary County	0312-S	С
5000677	Geary County	0663-S	С

### **Regulated Waste Water Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
6000887	MARTIN MARIETTA (PF QUARRY)	I-SH13-PO01	С
6001424	JUNCTION CITY MWTP	M-LR15-OO01	С

### **Regulated Waste Water Potential Site Sources**

Source No.	Source Name	ID/Permit No.	Zone
6001433	JUNCTION CITY MWTP	M-LR15-OO01	С
6001771	JUNCTION CITY – SOUTHWEST WTF	M-SH45-OO02	С
6001772	JUNCTION CITY – SOUTHWEST WTF	M-SH45-OO02	С

Assessment Area: **840**Diversion Id's: **001** 

Status: Accepted

Submit Date: 2003–02–03 11:44:54

#### **Added Sources:**

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

### **Added Sources**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Added Potential Site Sources**

Source No.	Source Name	SIC ID	Zone
Did Not Add Any Site Sources			

Assessment Area: **840**Diversion Id's: **001** 

Status: Accepted

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### **Potential Contaminants Summary:**

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

# **Potential Contaminants Summary**

Public Water Supply: VFW POST 8773

Assessment Area: 840

# **Number of Unregulated Site Sources Identified for each Contaminant Category**

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
20	1	36	21	27	17

A – Microbiolgical

**B\*** – Nitrates

C\* - Pesticides

**B** – Inorganic Compounds

C – Synthetic Organic Compounds

**D** – Volatile Organic Compounds

Assessment Area: **840**Diversion Id's: **001** 

Status: **Accepted** 

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### **Potential Contaminants Listing:**

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B\* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

**C\*** – Pesticides **D** – Volatile Organic Compounds

# **Potential Contaminants Listing**

Public Water Supply: VFW POST 8773

Assessment Area: 840

# **Unregulated Identified Site Sources and associated Potential Contaminant Category**

SIC ID	SIC Source	<b>Potential Contaminant</b>	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
2086	Bottled and Canned Soft Drinks Production	BOD	A
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
3321	Gray Iron Foundry	Minerals, metals, and TSS	В
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
3479	Metal Coating and Allied Services Manufacturing	inorganics, VOCs	В
"	"	"	D
1542	Nonresidential Construction	Sedimentation	B2

# **Unregulated Identified Site Sources and associated Potential Contaminant Category.**

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7384	Photofinishing Laboratory	NA	В
"	"	"	D
1429	Rock Quarry	Sedimentation	B2
4952	Sewerage Systems	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B*
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	11	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
3715	Truck Trailers Manufacturing	inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В

# **Unregulated Identified Site Sources and associated Potential Contaminant Category.**

SIC ID	SIC Source	Potential Contaminant	<b>Contaminant Category</b>
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	С
"	"	"	D
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
4953	Refuse Systems	ALL	A
"	"	"	В
"	l"	"	B1
"	l"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

Assessment Area: **840**Diversion Id's: **001** 

Status: **Accepted** 

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#### **Protection Measures:**

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

# **Protection Measures**

Public Water Supply: VFW POST 8773

Assessment Area: 840

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
2086	Bottled and Canned Soft Drinks Production	BOD	Wastewater pretreatment and/or discharge to a POTW.	40 CFR 407 and State or federal Storm water pollution prevention regulations
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
3321	Gray Iron Foundry	Minerals, metals, and TSS	Minimize outdoor storage and control storm water runoff. Pre–treat process wastewater prior to discharge to POTW	40 CFR 420 and State or federal Storm water pollution prevention regulations
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3479	Metal Coating and Allied Services Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 433 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
1429	Rock Quarry	Sedimentation	Erosion and Sediment Control	KAR 28–16

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4952	Sewerage Systems	Inorganics, VOCs	Manage sludge properly.  Minimize storm water contact with chemicals	KAR 28–16 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
7032	Sporting and Recreational Camps	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
3715	Truck Trailers Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

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Status: **Accepted** 

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### **Assessment Analysis:**

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

# **Assessment Analysis**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Ground Water Single Well Analysis**

 ${\bf A}$  – Microbiolgical  ${\bf B}$  – Inorganic Compounds

B\* – Nitrates
 C – Synthetic Organic Compounds
 C\* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	<b>B</b> *	C	<b>C</b> *	D
1	Is the well under the influence of surface water?	Yes	1	1	1	1	1	1
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?		0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?		0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?		0	0	0	0	0	0
6	Does a PWS own or control Zone A?		1	1	1	1	1	1
7	Does Zone A consist entirely of native grass?		1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?	No	0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?		1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?		1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?	No	0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?		0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?		1	1	1	1	1	1
17	Is there grazing livestock in Zone B?		1	0	1	0	0	0

No.	Question	Response	A	В	<b>B</b> *	C	<b>C</b> *	D
18	Do all the livestock producers have water quality protection measures in place?		1	0	1	0	0	0
19	Is there livestock confinement in Zone B?		0	0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
23	Are any orchards present in Zone B?		0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or sentic				0	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?	Yes	1	1	1	1	1	1
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
31	Is a solid waste landfill in Zone B or C?		1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	No	0	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?		1	1	1	1	1	1
35	Is there livestock confinement in Zone C?		1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
41	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

Assessment Area: **840**Diversion Id's: **001** 

Status: Accepted

Submit Date: 2003–02–03 11:44:54

#### **Site Comments:**

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

### **Site Comments**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Comments for Unregulated Sites**

Potential Contaminant Site No.	Site Comments	Author
137718	Rock Quarry never existed at this location	Dennis Taggart

### **Comments for Regulated Confined Animal Feeding Operations Sites**

Did Not Receive Any Comments

### **Comments for Regulated Hazardous Waste Sites**

Did Not Receive Any Comments

### **Comments for Regulated Leaking Storage Tank Sites**

Did Not Receive Any Comments

### **Comments for Regulated Identified Contaminated Sites**

Did Not Receive Any Comments

### **Comments for Regulated Solid Waste Sites**

Did Not Receive Any Comments

### **Comments for Regulated Waste Water Sites**

Did Not Receive Any Comments

Assessment Area: **840**Diversion Id's: **001** 

Status: Accepted

Submit Date: 2003–02–03 11:44:54

### **Added Site Comments:**

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

# **Added Site Comments**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Comments for Added Contaminant Sites**

Added Contaminant Site Name	Site No.	Site Comments	Author				
Did Not Receive Any Comments							

Assessment Area: **840**Diversion Id's: **001** 

Status: Accepted

Submit Date: 2003–02–03 11:44:54

### **Analysis Question Comments:**

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

# **Analysis Question Comments**

Public Water Supply: VFW POST 8773

Assessment Area: 840

### **Comments for Analysis Questions**

<b>Analysis Question</b>	<b>Question Comments</b>	Author
Is the well under the influence of surface water?	well is 50 ft. from the Smokey Hill River	Mike Houck
Is the depth of the well less than 30 feet?	ground water levels are up and down in the alluvial aquifer, and may be less than 30 ft. deep	Mike Houck
Does Zone A consist entirely of native grass?	most of zone A is parking lot and river bank	Mike Houck
Does Zone B consist entirely of native grass?	Zone B consists of urban development, some cropland, river flood plain area	Mike Houck
Is there grazing livestock in Zone B?	there is some cattle grazing on corn fields	Mike Houck
Is there a railroad or major highway in Zone B or C?	there is a major highway and a railroad track within Zone B	Mike Houck
Is a wastewater treatment facility in Zone B or C?	Junction City Municipal wastewater treatment plant is up stream from this well site	Mike Houck
Is a solid waste landfill in Zone B or C?	The Geary county landfill has been closed for several years. It is down stream from well location	Mike Houck
Is there livestock confinement in Zone C?	small dairy farm located down stream	Mike Houck
N/A or Unknown	KDOT has new office bldg. and shops west of well site in Zone C	Mike Houck